### PATENT COOPERATION TREATY

# PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
8426-1775PCT	ACTION	as well	as, where applicable, item 5 below.
International application No.	International filing date (day/month	/year)	(Earliest) Priority Date (day/month/year)
PCT/CA2004/000861	08/06/2004		11/06/2003
Applicant			
			·
MERCK FROSST CANADA & CO.			
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Sear ansmitted to the International Bureau	ching Aut	nority and is transmitted to the applicant
This International Search Report consists	of a total of she	ets.	
·	a copy of each prior art document c		report.
Basis of the report     a. With regard to the language, the language in which it was filed, unit	international search was carried out ess otherwise indicated under this it	on the ba em.	sis of the international application in the
The international this Authority (Ru		of a trans	ation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequence	disclosed	in the international application, see Box No. I.
2. X Certain claims were fou	nd unsearchable (See Box II).		
3. Unity of invention is lac	king (see Box III).		
4. With regard to the <b>title</b> ,			
the text is approved as su	ubmitted by the applicant.		
I 1	shed by this Authority to read as folio		
7-`(1,3-THIAZOL-2-YL)T BIOSYNTHESIS INHIBITOR		'IVES A	ND THEIR USE AS LEUKOTRIENE
			·
			NOV 2 9 2004
5. With regard to the abstract,  X the text is approved as su	hmitted by the applicant	- 1	GABRIELE R CROWN EV
the text has been establis	shed, according to Rule 38.2(b), by the	ے nis Author	ity as it appears in Box No. IV. The applicant
may, within one month from	om the date of mailing of this interna	tional sear	ch report, submit comments to this Authority.
6. With regards to the drawings,  a. the figure of the drawings to be particular.	published with the abstract is Figure	No	
as suggested by		alle al 4- a	
	is Authority, because the applicant fa is Authority, because this figure bette		
	e published with the abstract.	si ciiaiaci	
b. L. Hone of the figures is to be	- parione man are about a		

### INTERNATIONAL SEARCH REPORT

International Application No PCT/CA2004/000861

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D417/12 A61K A61K31/427 C07D417/14

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BEILSTEIN Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 96/13500 A (MERCK FROSST CANADA INC; DELORME DANIEL (CA); DUCHARME YVES (CA); FRI) 9 May 1996 (1996-05-09)	1-43
	cited in the application page 111 - page 116; claims 1,4,20 page 41; example 4	
'a	US 5 424 320 A (FORTIN REJEAN ET AL) 13 June 1995 (1995-06-13) column 46 - column 47; claim 1	1-43
d		

		78171107
1	_	0000
i	XI	Further documents are listed in the continuation of box C.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Patent family members are tisted in annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- earlier document but published on or after the international filing date
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- 'O' document referring to an oral disclosure, use, exhibition or other means
- document published prior to the international filing date but later than the priority date claimed
- 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document. ments, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of mailing of the international search report

Date of the actual completion of the international search

29 October 2004

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2

NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

12/11/2004

Authorized officer

Fink, D

2

### INTERNATIONAL SEARCH REPORT

International Application No PCT/CA2004/000861

C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	<u> </u>	747 000001
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
<sup>A</sup> 3	CRAWLEY, GRAHAM C. ET AL: "Chiral Dioxolane Inhibitors of Leukotriene Biosynthesis: Structure-Activity Relationships and Syntheses Using Asymmetric Dihydroxylation" JOURNAL OF MEDICINAL CHEMISTRY, vol. 38, no. 20, 1995, pages 3951-3956, XP002303276 page 395; column 1, second paragraph; and column 2, Chart 1, the compounds 3 and 8		1-43
	NOV 2004 RECEIVED Case Reference Clerk  Clerk  Clerk		
		•	

### International application No. PCT/CA2004/000861

## INTERNATIONAL SEARCH REPORT

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. χ	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims $10-19$ and $26-35$ are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	emational Searching Authority found multiple inventions in this international application, as follows:
•	
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/CA2004/000861

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9613500	Α	09-05-1996	US	5552437 A	03-09-1996
			AT	201409 T	15-06-2001
			AU	689656 B2	02-04-1998
			AU	3695795 A	23-05-1996
			CA	2203417 A1	09-05-1996
			WO	9613500 A1	09-05-1996
			DE	69521054 D1	28-06-2001
			DE	69521054 T2	22-11-2001
			EP	0788497 A1	13-08-1997
			ES	2156961 T3	01-08-2001
			JP	10507767 T	28-07-1998
US 5424320	Α	13-06-1995	CA	2125824 A1	24-12-1994